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1 [Facial modeling and animation](#)



Jörg Haber, Demetri Terzopoulos

 August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press

 Full text available: [pdf \(18.15 MB\)](#) Additional Information: [full citation](#), [abstract](#)

In this course we present an overview of the concepts and current techniques in facial modeling and animation. We introduce this research area by its history and applications. As a necessary prerequisite for facial modeling, data acquisition is discussed in detail. We describe basic concepts of facial animation and present different approaches including parametric models, performance-, physics-, and learning-based methods. State-of-the-art techniques such as muscle-based facial animation, mass-s ...

2 [System R: relational approach to database management](#)



M. M. Astrahan, M. W. Blasgen, D. D. Chamberlin, K. P. Eswaran, J. N. Gray, P. P. Griffiths, W. F. King, R. A. Lorie, P. R. McJones, J. W. Mehl, G. R. Putzolu, I. L. Traiger, B. W. Wade, V. Watson

 June 1976 **ACM Transactions on Database Systems (TODS)**, Volume 1 Issue 2

Publisher: ACM Press

 Full text available: [pdf \(3.18 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

System R is a database management system which provides a high level relational data interface. The systems provides a high level of data independence by isolating the end user as much as possible from underlying storage structures. The system permits definition of a variety of relational views on common underlying data. Data control features are provided, including authorization, integrity assertions, triggered transactions, a logging and recovery subsystem, and facilities for maintaining ...

Keywords: authorization, data structures, database, index structures, locking, nonprocedural language, recovery, relational model

3 [Fast image retrieval using color-spatial information](#)



Beng Chin Ooi, Kian-Lee Tan, Tat Seng Chua, Wynne Hsu

 May 1998 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 7 Issue 2

Publisher: Springer-Verlag New York, Inc.

Full text available:  [pdf\(496.55 KB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

In this paper, we present an image retrieval system that employs both the color and spatial information of images to facilitate the retrieval process. The basic unit used in our technique is a *single-colored cluster*, which bounds a homogeneous region of that color in an image. Two clusters from two images are similar if they are of the same color and overlap in the image space. The number of clusters that can be extracted from an image can be very large, and it affects the accuracy of ret ...

Keywords: Color-spatial information, Content-based retrieval, Sequenced multi-attribute tree, Single-colored cluster

4 [An interactive introduction to OpenGL programming](#)


 Dave Shreiner, Ed Angel, Vicki Shreiner
August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press

Full text available:  [pdf\(3.35 MB\)](#) Additional Information: [full citation](#), [abstract](#)

"An Interactive Introduction to OpenGL Programming" provides an overview of the OpenGL Application Programming Interface (API), a library of subroutines for drawing three-dimensional objects and images on a computer. After the completion of the course, a programmer able to write simple programs in the "C" language will be able to create an OpenGL application that has moving 3D objects that look like they are being lit by lights in the scene and by specifying colors or images that should be used ...

5 [Self-scheduling on distributed-memory machines](#)

 J. Liu, V. A. Saleh
December 1993 **Proceedings of the 1993 ACM/IEEE conference on Supercomputing**

Publisher: ACM Press

Full text available:  [pdf\(1.02 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

6 [Image query processing based on multi-level signatures](#)

 F. Rabitti, P. Savino
September 1991 **Proceedings of the 14th annual international ACM SIGIR conference on Research and development in information retrieval**

Publisher: ACM Press

Full text available:  [pdf\(1.02 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)


7 [Status report of the graphic standards planning committee](#)

 Computer Graphics staff
August 1979 **ACM SIGGRAPH Computer Graphics**, Volume 13 Issue 3

Publisher: ACM Press

Full text available:  [pdf\(15.01 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#)

8 [Image contrast enhancement using fuzzy set theory](#)

 Faisal Saeed, K. M. George, Huizhu Lu
April 1992 **Proceedings of the 1992 ACM/SIGAPP Symposium on Applied computing: technological challenges of the 1990's**

Publisher: ACM Press

Full text available:  [pdf\(656.59 KB\)](#) Additional Information: [full citation](#), [references](#), [index terms](#)

9 Parallel integer sorting is more efficient than parallel comparison sorting on exclusive write PRAMs

Yijie Han, Xiaojun Shen

January 1999 **Proceedings of the tenth annual ACM-SIAM symposium on Discrete algorithms**

Publisher: Society for Industrial and Applied Mathematics

Full text available:  pdf(1.28 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

10 Abstract state machines capture parallel algorithms

Andreas Blass, Yuri Gurevich

October 2003 **ACM Transactions on Computational Logic (TOCL)**, Volume 4 Issue 4

Publisher: ACM Press

Full text available:  pdf(610.28 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We give an axiomatic description of parallel, synchronous algorithms. Our main result is that every such algorithm can be simulated, step for step, by an abstract state machine with a background that provides for multisets.

Keywords: ASM thesis, Parallel algorithm, abstract state machine, postulates for parallel computation

11 Fortran 8X draft

Loren P. Meissner

December 1989 **ACM SIGPLAN Fortran Forum**, Volume 8 Issue 4

Publisher: ACM Press

Full text available:  pdf(21.36 MB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

Standard Programming Language Fortran. This standard specifies the form and establishes the interpretation of programs expressed in the Fortran language. It consists of the specification of the language Fortran. No subsets are specified in this standard. The previous standard, commonly known as "FORTRAN 77", is entirely contained within this standard, known as "Fortran 8x". Therefore, any standard-conforming FORTRAN 77 program is standard conforming under this standard. New features can b ...

12 Eliminating redundancies with a "composition with adaptation" meta-programming technique

Stan Jarzabek, Li Shubiao

September 2003 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 9th European software engineering conference held jointly with 11th ACM SIGSOFT international symposium on Foundations of software engineering ESEC/FSE-11**, Volume 28 Issue 5

Publisher: ACM Press

Full text available:  pdf(297.50 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Redundant code obstructs program understanding and contributes to high maintenance costs. While most experts agree on that, opinions - on how serious the problem of redundancies really is and how to tackle it - differ. In this paper, we present the study of redundancies in the Java Buffer library, JDK 1.4.1, which was recently released by Sun. We found that at least 68% of code in the Buffer library is redundant in the sense that it recurs in many classes in the same or slightly modified form. W ...

Keywords: class libraries, generative programming, meta-programming, object-oriented

methods

13 Circumscription with homomorphisms: solving the equality and counterexample problems



Peter K. Rathmann, Marianne Winslett, Mark Manasse
September 1994 **Journal of the ACM (JACM)**, Volume 41 Issue 5

Publisher: ACM Press

Full text available: pdf(4.00 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

One important facet of common-sense reasoning is the ability to draw default conclusions about the state of the world, so that one can, for example, assume that a given bird flies in the absence of information to the contrary. A deficiency in the circumscriptive approach to common-sense reasoning has been its difficulties in producing default that Tweety ≠ Blutto using ordinary circumscription, or conclude by default that a particular bird fl ...

Keywords: circumscription, common sense reasoning

14 Design and analysis of efficient hierarchical interconnection networks



Sizheng Wei, Saul Levy
August 1991 **Proceedings of the 1991 ACM/IEEE conference on Supercomputing**

Publisher: ACM Press

Full text available: pdf(1.07 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

15 SWiMNet: a scalable parallel simulation testbed for wireless and mobile networks



Azzedine Boukerche, Sajal K. Das, Alessandro Fabbri
September 2001 **Wireless Networks**, Volume 7 Issue 5

Publisher: Kluwer Academic Publishers

Full text available: pdf(397.98 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present a framework, called SWiMNet, for parallel simulation of wireless and mobile PCS networks, which allows realistic and detailed modeling of mobility, call traffic, and PCS network deployment. SWiMNet is based upon event precomputation and a combination of optimistic and conservative synchronization mechanisms. Event precomputation is the result of model independence within the global PCS network. Low percentage of blocked calls typical for PCS networks is exploited in the channel alloca ...

Keywords: PCS network models, framework for PCS network simulation, parallel discrete event simulation, performance analysis

16 Special issue on ICML: Learning to construct fast signal processing implementations




Bryan Singer, Manuela Veloso
March 2003 **The Journal of Machine Learning Research**, Volume 3

Publisher: MIT Press


Full text available: pdf(5.52 MB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

A single signal processing algorithm can be represented by many mathematically equivalent formulas. However, when these formulas are implemented in code and run on real machines, they have very different runtimes. Unfortunately, it is extremely difficult to model this broad performance range. Further, the space of formulas for real signal transforms is so large that it is impossible to search it exhaustively for fast implementations. We approach this search question as a control learning problem ...

17 Image Retrieval II: A statistical correlation model for image retrieval

 Mingjing Li, Zheng Chen, Liu Wenyin, Hong-Jiang Zhang
September 2001 **Proceedings of the 2001 ACM workshops on Multimedia: multimedia information retrieval**

Publisher: ACM Press

Full text available:  [pdf\(369.45 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


A bigram correlation model for image retrieval is proposed, which captures the semantic relationship among images in a database from simple statistics of users' relevance feedback information. It is used in the post-processing of image retrieval results such that more semantically related images are returned to the user. The algorithm is easy to implement and can be efficiently integrated into an image retrieval system to help improve the retrieval performance. Preliminary experimental results o ...

Keywords: correlation, image retrieval, relevance feedback, stastitics

18 Formal query languages for secure relational databases

 Marianne Winslett, Kenneth Smith, Xiaolei Qian
December 1994 **ACM Transactions on Database Systems (TODS)**, Volume 19 Issue 4


Publisher: ACM Press

Full text available:  [pdf\(2.43 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The addition of stringent security specifications to the list of requirements for an application poses many new problems in DBMS design and implementation, as well as database design, use, and maintenance. Tight security requirements, such as those that result in silent masking of withholding of true information from a user or the introduction of false information into query answers, also raise fundamental questions about the meaning of the database and the semantics of accompanying query la ...

Keywords: formal security models, information security, multilevel secure databases

19 On randomization in sequential and distributed algorithms

 Rajiv Gupta, Scott A. Smolka, Shaji Bhaskar
March 1994 **ACM Computing Surveys (CSUR)**, Volume 26 Issue 1

Publisher: ACM Press

Full text available:  [pdf\(8.01 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Probabilistic, or randomized, algorithms are fast becoming as commonplace as conventional deterministic algorithms. This survey presents five techniques that have been widely used in the design of randomized algorithms. These techniques are illustrated using 12 randomized algorithms—both sequential and distributed— that span a wide range of applications, including: primality testing (a classical problem in number theory), interactive probabilistic proof s ...

Keywords: Byzantine agreement, CSP, analysis of algorithms, computational complexity, dining philosophers problem, distributed algorithms, graph isomorphism, hashing, interactive probabilistic proof systems, leader election, message routing, nearest-neighbors problem, perfect hashing, primality testing, probabilistic techniques, randomized or probabilistic algorithms, randomized quicksort, sequential algorithms, transitive tournaments, universal hashing

20 Double Integration Using One-Dimensional Adaptive Quadrature Routines: A Software Interface Problem



F. N. Fritsch, D. K. Kahaner, J. N. Lyness

March 1981 **ACM Transactions on Mathematical Software (TOMS)**, Volume 7 Issue 1

Publisher: ACM Press

Full text available: [pdf\(1.74 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

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IEEE JNL IEEE Journal or Magazine

IEEE CNF IEEE Conference Proceeding

IEEE CNF IEEE Conference Proceeding

IEEE STD IEEE Standard

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